IN THE CLAIMS:

- Lamp for vehicles including: a light conductor element (1) that has at least 1. one light in-coupling element (3) arranged between two adjacent light out-coupling elements (2), a light source (4) associated with a light in-coupling surface (5) of the light in-coupling element (3), at least two light-diverting surfaces (6) of the light incoupling element (3) each being respectively associated with one of the light outcoupling elements (2) and serving to divert light beams radiated from the light source (4) toward the respèctive light out-coupling element (2), wherein the lightdiverting surfaces (6) of the light in-coupling element (3) are curved outwardly and have a common focus position (7) for the light source (4).
- Lamp according to claim 1 wherein the light conductor element (1) is in an 2. interior space of one of a headlight and a taillight and the light in-coupling surface (5) of the light in-coupling element (3) is arranged in a lower half of the one of the headlight and the taillight.
- Lamp according to claim 2 wherein the light conductor element (1) is 3. structured to have a ring-shape and has a single light in-coupling element (3), with the light in-coupling element (3) and the light out-coupling elements (2) being made of a one piece light conductor element (1), with the light source (4) being a light diode, and with the two light out-coupling elements (2) being formed from portions of the ring-shaped light conductor element (1) that border on the light incoupling element (3) and transitioning into one another because of the ring-shaped structure of the conductor element (1).
- 4. Lamp as in claim 1 wherein the light conductor element (1) has a plurality of light in-coupling elements (3) spaced from one another.





- 5. Lamp according to claim 1 wherein a smallest spacing of the light incoupling surface (3) from the light-diverting surfaces (6) is a maximum of one and a half times a structural depth of the light out-coupling element (2).
- 6. Lamp according to claim 5 wherein the smallest spacing of the light incoupling surface (5) from the light-diverting surfaces (6) is smaller than the structural depth of the light out-coupling element (2).
- 7. Lamp according to claim 1 wherein the light-conducting element (1) is associated with a reflector (8) and forms a component that covers the light source (4), with light out-coupling surfaces (10) of the light out-coupling elements (2) facing a reflection surface (9) of the reflector (8) and light beams exiting from the light out-coupling surfaces (10) falling on the reflection surface (9) of the reflector (8).
- 8. Lamp according to claim 1 wherein the light-diverting surfaces (6) extend parabolically, with rotation axes of the parabaloids extending into the respective out-coupling elements (2).
- 9. Lamp according to claim 1 wherein the light-diverting surfaces (6) extend elliptically, with the light source (4) being arranged at a common first focus position (7) of the light-diverting surfaces (6) and two focus positions (11) lying on a line that extends into the respective out-coupling elements (2).
- 10. Lamp according to claim 1 wherein the light in-coupling element (3) has at least three light-diverting surfaces (6), each being respectively associated with a light out-coupling element (2).

- 11. Lamp according to claim 1 wherein the light-diverting surfaces (6) that totally reflect light from the light source (4) are provided with at least one light decoupling element (12).
- 12. Lamp according to claim 1 wherein at least one of the light-diverting surfaces (6) of the light in-coupling element (3) is offset from an optical axis of the light source (4).